

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6013634		20000111
APPLICATION INFO.:	US 1998-53785		19980402 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-746393, filed on 8 Nov 1996, now patented, Pat. No. US 5846943		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Lee, Howard C.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, LLP		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1056		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L4 ANSWER 5 OF 6 USPATFULL

ACCESSION NUMBER: 1998:154251 USPATFULL
 TITLE: Solid support matricles containing a toxin binding oligosaccharide
 INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada
 Nilsson, Ulf J., Edmonton, Canada
 PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5846943		19981208
APPLICATION INFO.:	US 1996-746393		19961108 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Fonda, Kathleen K.		
LEGAL REPRESENTATIVE:	Burns, Doane, Swecker & Mathis, L.L.P.		
NUMBER OF CLAIMS:	10		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1021		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L4 ANSWER 6 OF 6 USPATFULL

ACCESSION NUMBER: 87:18626 USPATFULL
 TITLE: Synergistic cytotoxic composition
 INVENTOR(S): Aggarwal, Bharat B., San Mateo, CA, United States
 Lee, Sang He, El Granada, CA, United States
 PATENT ASSIGNEE(S): Genentech, Inc., So. San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4650674		19870317
APPLICATION INFO.:	US 1984-677257		19841203 (6)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1984-628060, filed on 5 Jul 1984, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hazel, Blondel		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1,5		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	1753		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:352121 CAPLUS
 DOCUMENT NUMBER: 129:72270
 TITLE: Materials for removing or detoxifying superantigens,
 their uses, and **removal** of superantigens
 using them
 INVENTOR(S): Fukuyama, Mayumi; Miwa, Takashi; Sakai, Rumiko
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10147541	A2	19980602	JP 1996-308053	19961119

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:352117 CAPLUS
 DOCUMENT NUMBER: 129:72269
 TITLE: Materials for removing pyrogens or detoxification,
 their uses, and **removal** of pyrogens from
body fluids, etc.
 INVENTOR(S): Fukuyama, Mayumi; Miwa, Takashi; Sakai, Rumiko
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10147533	A2	19980602	JP 1996-308052	19961119

L5 ANSWER 3 OF 3 USPATFULL
 ACCESSION NUMBER: 1999:21711 USPATFULL
 TITLE: CXC chemokines as regulators of angiogenesis
 INVENTOR(S): Strieter, Robert M., Ann Arbor, MI, United States
 Polverini, Peter J., Ann Arbor, MI, United States
 Kunkel, Steven L., Ann Arbor, MI, United States
 PATENT ASSIGNEE(S): The Regent of the University of Michigan, Ann Arbor,
 MI, United States (U.S. corporation)

	NUMBER	KIND	DATE
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PATENT INFORMATION:	US 5871723		19990216
APPLICATION INFO.:	US 1995-468819		19950606 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Draper, Garnette D.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 71 Drawing Page(s)		
LINE COUNT:	6055		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:555562 CAPLUS
 DOCUMENT NUMBER: 129:180198
 TITLE: Method and column for treatment of liquids to remove
 or detoxify bacterial toxins
 INVENTOR(S): Shimizu, Shinji; Sanwa, Keishi; Fukuyama, Mayumi
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10225515	A2	19980825	JP 1997-32241	19970217

L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:352121 CAPLUS
 DOCUMENT NUMBER: 129:72270
 TITLE: Materials for removing or detoxifying superantigens,
 their uses, and **removal** of superantigens
 using them
 INVENTOR(S): Fukuyama, Mayumi; Miwa, Takashi; Sakai, Rumiko
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10147541	A2	19980602	JP 1996-308053	19961119

L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1998:352117 CAPLUS
 DOCUMENT NUMBER: 129:72269
 TITLE: Materials for removing pyrogens or detoxification,
 their uses, and **removal** of pyrogens from
body fluids, etc.
 INVENTOR(S): Fukuyama, Mayumi; Miwa, Takashi; Sakai, Rumiko
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10147533	A2	19980602	JP 1996-308052	19961119

L4 ANSWER 4 OF 6 USPATFULL
 ACCESSION NUMBER: 2000:4796 USPATFULL
 TITLE: Solid support matrices containing a toxin binding
 oligosaccharide
 INVENTOR(S): Hindsgaul, Ole, Edmonton, Canada
 Nilsson, Ulf J., Lund, Sweden
 PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Calgary, Canada (non-U.S.
 corporation)

L5 ANSWER 1 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:868282 CAPLUS
DOCUMENT NUMBER: 135:376850
TITLE: Adsorbent for cardiac glycoside, and method and device
for adsorbing and removing cardiac glycoside
INVENTOR(S): Hihiro, Junko; **Furuyoshi, Shigeo**; Takata,
Satoshi; Tsuruoka, Shuichi; Fujimura, Akio
PATENT ASSIGNEE(S): Kaneka Corporation, Japan
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001089602	A1	20011129	WO 2001-JP4307	20010523
W: JP, US				
RW: DE, FR, GB, IT				
PRIORITY APPLN. INFO.:			JP 2000-154956	A 20000525
REFERENCE COUNT:	8	THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L5 ANSWER 2 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:416821 CAPLUS
DOCUMENT NUMBER: 135:16336
TITLE: Adsorbent for peptidoglycan, and method and apparatus
for adsorptively removing peptidoglycan
INVENTOR(S): Hirai, Fumiyasu; **Furuyoshi, Shigeo**
PATENT ASSIGNEE(S): Kaneka Corporation, Japan
SOURCE: PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001039879	A1	20010607	WO 2000-JP8487	20001130
W: US				
RW: DE, FR, GB, IT				
JP 2001219062	A2	20010814	JP 2000-338945	20001107
PRIORITY APPLN. INFO.:			JP 1999-343164	A 19991202
			JP 2000-338945	A 20001107
REFERENCE COUNT:	29	THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L5 ANSWER 3 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:338405 CAPLUS
DOCUMENT NUMBER: 134:328305
TITLE: Filters for leakage prevention of packing materials in
adsorbers
INVENTOR(S): Ito, Shinji; Nanko, Toshiki; **Furuyoshi, Shigeo**
PATENT ASSIGNEE(S): Kaneka Corporation, Japan
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001032286 A1 20010510 WO 2000-JP6754 20000929

W: US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

PRIORITY APPLN. INFO.:

REFERENCE COUNT:

3

JP 1999-312104 A 19991102

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:752838 CAPLUS

DOCUMENT NUMBER: 135:308941

TITLE: Adsorbents for antibodies, adsorption process, and
apparatus for treatment of dilated cardiomyopathy

INVENTOR(S): Ogino, Eiji; **Furuyoshi, Shigeo**; Hirai,

Fumiyasu; Nishimoto, Takehiro

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001286554	A2	20011016	JP 2000-106915	20000407
WO 2001076662	A1	20011018	WO 2001-JP3026	20010409

W: CN, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, TR

PRIORITY APPLN. INFO.:

JP 2000-106915 A 20000407

L5 ANSWER 5 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:586383 CAPLUS

DOCUMENT NUMBER: 135:157749

TITLE: Adsorbents and apparatus for removing transforming
growth factor .beta. (TGF-.beta.) from body fluid, and
method for the removal

INVENTOR(S): Hirai, Fumiyasu; Fujimoto, Tamiji; **Furuyoshi,
Shigeo**

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001218840	A2	20010814	JP 2000-35168	20000214
US 2001021525	A1	20010913	US 2001-773598	20010202
EP 1142633	A1	20011010	EP 2001-102701	20010206

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.:

JP 2000-35168 A 20000214

L5 ANSWER 6 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:551720 CAPLUS

DOCUMENT NUMBER: 135:127264

TITLE: Direct extracorporeal blood purification apparatus
packed with adsorbent particles

INVENTOR(S): Okuyama, Tsutomu; Nakaya, Masaru; Kobayashi, Akira;

PATENT ASSIGNEE(S): Ichimura, Masaki; **Furuyoshi, Shigeo**
 SOURCE: Kanegafuchi Chemical Industry Co., Ltd., Japan
 Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001204816	A2	20010731	JP 2000-15433	20000125

L5 ANSWER 7 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:554601 CAPLUS
 DOCUMENT NUMBER: 135:104714
 TITLE: Method for removing lipoproteins by adsorption
 INVENTOR(S): Kobayashi, Akira; Nakaya, Masaru; Okuyama, Tsutomu;
Furuyoshi, Shigeo; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001204500	A2	20010731	JP 2000-19249	20000127

L5 ANSWER 8 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:288855 CAPLUS
 DOCUMENT NUMBER: 134:316173
 TITLE: Modification of cellulose to decrease the
 granulocyte-activating activity, the modified
 cellulose, and blood purification apparatus using them
 INVENTOR(S): Nakaya, Masaru; Kobayashi, Akira; **Furuyoshi, Shigeo**
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001114802	A2	20010424	JP 1999-299435	19991021

L5 ANSWER 9 OF 63 USPATFULL
 ACCESSION NUMBER: 2001:155594 USPATFULL
 TITLE: Adsorbent for transforming growth factor-beta, method
 for removing the transforming growth factor-beta by
 adsorption and adsorber packed with the adsorbent
 INVENTOR(S): Hirai, Fumiyasu, Ibaraki-shi, Japan
 Fujimoto, Tamiji, Settsu-shi, Japan
Furuyoshi, Shigeo, Kobe-shi, Japan
 PATENT ASSIGNEE(S): KANEKA CORPORATION, Osaka-shi, Japan (non-U.S.
 corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2001021525 A1 20010913
APPLICATION INFO.: US 2001-773598 A1 20010202 (9)

NUMBER DATE

PRIORITY INFORMATION: JP 2000-35168 20000214
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ARMSTRONG, WESTERMAN, HATTORI,, MCLELAND & NAUGHTON,
LLP, 1725 K STREET, NW, SUITE 1000, WASHINGTON, DC,
20006
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 600
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:732763 CAPLUS
DOCUMENT NUMBER: 133:325696
TITLE: Adsorbent for tumor necrosis factor-.alpha. and method
for removal of tumor necrosis factor-.alpha.
INVENTOR(S): Hirai, Fumiyasu; **Furuyoshi, Shigeo**; Tani,
Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000288388	A2	20001017	JP 1999-93580	19990331

L5 ANSWER 11 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:693492 CAPLUS
TITLE: The method of decreasing the biological activity of
the ended toxin. [Machine Translation].
INVENTOR(S): Fujimoto, Tamiji; Hirai, Fumiyasu; Nakaya,
Masaru; **Furuyoshi, Shigeo**; Tani,
Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000271214	A2	20001003	JP 1999-77711	19990323

L5 ANSWER 12 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1
ACCESSION NUMBER: 1999:415400 BIOSIS
DOCUMENT NUMBER: PREV199900415400
TITLE: Absorbent for removing interleukins and tumor necrosis
factor, and process for removing the same.
AUTHOR(S): Nakatani, Masaru (1); **Furuyoshi, Shigeo**; Takata,
Satoshi
CORPORATE SOURCE: (1) First Division, Department of Internal Medicine, Kobe

University School of Medicine, Kobe Japan
 ASSIGNEE: Kanegafuchi Kagaku Kogyo Kabushiki Kaisha
 PATENT INFORMATION: US 5919898 Jul. 06, 1999
 SOURCE: Official Gazette of the United States Patent and Trademark
 Office Patents, (Jul. 6, 1999) Vol. 1224, No. 1, pp. NO
 PAGINATION.
 ISSN: 0098-1133.
 DOCUMENT TYPE: Patent
 LANGUAGE: English

L5 ANSWER 13 OF 63 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
 ACCESSION NUMBER: 1997:754033 CAPLUS
 DOCUMENT NUMBER: 128:53275
 TITLE: Removal of anti-cardiolipin-.beta.2-glycoprotein I
 complex antibodies from body fluid with anionic
 adsorbents
 INVENTOR(S): Hiroy, Junko; **Furuyoshi, Shigeo**; Takada,
 Satoru
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09299478	A2	19971125	JP 1996-146600	19960515

L5 ANSWER 14 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:533561 CAPLUS
 DOCUMENT NUMBER: 127:181212
 TITLE: Adsorbent for elimination of disease-related factors
 in body fluids and apparatus for purifying body fluids
 INVENTOR(S): Nanko, Toshiki; **Furuyoshi, Shigeo**; Takata,
 Satoshi; Nakatani, Masaru
 PATENT ASSIGNEE(S): Kaneka Corp., Japan; Nanko, Toshiki; Furuyoshi,
 Shigeo; Takata, Satoshi; Nakatani, Masaru
 SOURCE: PCT Int. Appl., 57 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9727889	A1	19970807	WO 1997-JP254	19970130
W: CA, US				
RW: DE, FR, GB, IT				
CA 2216718	AA	19970807	CA 1997-2216718	19970130
JP 09266948	A2	19971014	JP 1997-16983	19970130
JP 09313604	A2	19971209	JP 1997-16984	19970130
EP 819439	A1	19980121	EP 1997-901817	19970130
R: DE, FR, GB, IT				
PRIORITY APPLN. INFO.:			JP 1996-15502	19960131
			JP 1996-74721	19960328
			WO 1997-JP254	19970130

L5 ANSWER 15 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1997:671643 CAPLUS
 DOCUMENT NUMBER: 127:292076
 TITLE: Adsorbent and method for removing chemokines

INVENTOR(S): Nakatani, Masaru; Takata, Satoshi; **Furuyoshi, Shigeo**
 PATENT ASSIGNEE(S): Kaneka Corporation, Japan
 SOURCE: Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 796865	A2	19970924	EP 1997-104537	19970317
EP 796865	A3	19981202		
R: DE, FR, GB, IT				
JP 09253200	A2	19970930	JP 1996-61158	19960318
JP 09253201	A2	19970930	JP 1996-72916	19960327
CA 2200119	AA	19970918	CA 1997-2200119	19970317
PRIORITY APPLN. INFO.:			JP 1996-61158	19960318
			JP 1996-72916	19960327

L5 ANSWER 16 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1997-313604 JAPIO
 TITLE: ADSORPTIVE MATERIAL, ADSORPTIVE REMOVAL METHOD AND ADSORBER OF CHEMOKINES
 INVENTOR: NAKATANI MASARU; **FURUYOSHI SHIGEO**; TAKADA SATORU
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 09313604	A	19971209	Heisei	(6) A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1997-16984 19970130
 ORIGINAL: JP09016984 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 97, No. 12

L5 ANSWER 17 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1997-266948 JAPIO
 TITLE: BLOOD PURIFYING DEVICE AND BLOOD PURIFYING EQUIPMENT
 INVENTOR: NANKO AKITAKE; **FURUYOSHI SHIGEO**; TAKADA SATORU
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 09266948	A	19971014	Heisei	(6) A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1997-16983 19970130
 ORIGINAL: JP09016983 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 97, No. 10

L5 ANSWER 18 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1997-253201 JAPIO
 TITLE: ADSORBENT, ADSORPTION REMOVAL METHOD AND ADSORBER OF CHEMOKINES

INVENTOR: NAKATANI MASARU; **FURUYOSHI SHIGEO**; TAKADA
SATORU
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 09253201	A	19970930	Heisei	(6) A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1996-72916 19960327
ORIGINAL: JP08072916 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 97, No. 9

L5 ANSWER 19 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1997-253200 JAPIO
TITLE: ADSORBENT, ADSORPTIVE REMOVING METHOD AND ADSORBER FOR
CHEMOKINES
INVENTOR: NAKATANI MASARU; **FURUYOSHI SHIGEO**; TAKADA
SATORU
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 09253200	A	19970930	Heisei	(6) A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1996-61158 19960318
ORIGINAL: JP08061158 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 97, No. 9

L5 ANSWER 20 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:546276 CAPLUS
DOCUMENT NUMBER: 125:193453
TITLE: Adsorbent for removing interleukins and tumor necrosis
factor (TNF) and process for removing the same
INVENTOR(S): Nakatani, Masaru; **Furuyoshi, Shigeo**; Takata,
Satoshi
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Japan
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 723794	A1	19960731	EP 1996-101098	19960126
R: DE, FR, GB, IT				
JP 08257115	A2	19961008	JP 1995-61182	19950320
JP 08257398	A2	19961008	JP 1995-66565	19950324
CA 2167872	AA	19960728	CA 1996-2167872	19960123
US 5919898	A	19990706	US 1996-590599	19960124
PRIORITY APPLN. INFO.:			JP 1995-12082	19950127
			JP 1995-61182	19950320
			JP 1995-66565	19950324

L5 ANSWER 21 OF 63 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1996-257398 JAPIO
TITLE: ADSORBENT OF INTERLEUKINS AND ADSORBING/REMOVING
METHOD
INVENTOR: NAKATANI MASARU; **FURUYOSHI SHIGEO**; TAKADA
SATORU
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08257398	A	19961008	Heisei	(6) B01J020-26

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1995-66565 19950324
ORIGINAL: JP07066565 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 96, No. 10

L5 ANSWER 22 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1996-257115 JAPIO
TITLE: ADSORBENT OF TUMOR NECROSIS FACTOR AND ADSORPTION
REMOVAL METHOD
INVENTOR: NAKATANI MASARU; **FURUYOSHI SHIGEO**; TAKADA
SATORU
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08257115	A	19961008	Heisei	(6) A61M001-36

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1995-61182 19950320
ORIGINAL: JP07061182 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 96, No. 10

L5 ANSWER 23 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1996-052303 JAPIO
TITLE: IMPROVEMENT OF PRESERVING STABILITY OF ADSORPTION
COLUMN FOR IN-VITRO CIRCULATION TREATMENT
INVENTOR: TANI NOBUTAKA; OKUYAMA TSUTOMU; **FURUYOSHI
SHIGEO**
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08052303	A	19960227	Heisei	(6) B01D015-00

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1995-123298 19950523
ORIGINAL: JP07123298 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 96, No. 2

L5 ANSWER 24 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:795165 CAPLUS
DOCUMENT NUMBER: 123:193074
TITLE: Substance for detecting amyloid deposition
INVENTOR(S): Gejyo, Fumitake; Nakatani, Masaru; **Furuyoshi,**

Shigeo; Takata, Satoshi
 PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo K K, Japan
 SOURCE: PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9515184	A1	19950608	WO 1994-JP2003	19941129
W: CA, CN, US				
RW: BE, DE, ES, FR, GB, IT				
CA 2154869	AA	19950608	CA 1994-2154869	19941129
EP 681844	A1	19951115	EP 1995-901609	19941129
R: BE, DE, ES, FR, GB, IT				
CN 1119415	A	19960327	CN 1994-191529	19941129
PRIORITY APPLN. INFO.:			JP 1993-300319	19931130
			WO 1994-JP2003	19941129

L5 ANSWER 25 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1995-149668 JAPIO
 TITLE: SUBSTANCE FOR DETECTING AMYLOID DEPOSIT
 INVENTOR: SHIMOJIYOU FUMITAKE; NAKATANI MASARU; **FURUYOSHI SHIGEO; TAKADA SATORU**
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 07149668	A	19950613	Heisei	(6) A61K051-00

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1993-300319 19931130
 ORIGINAL: JP05300319 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 95, No. 6

L5 ANSWER 26 OF 63 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 3
 ACCESSION NUMBER: 1994:227025 CAPLUS
 DOCUMENT NUMBER: 120:227025
 TITLE: Buffers for pretreatment of body fluid purification agents
 INVENTOR(S): Suzuki, Kazuo; **Furuyoshi, Shigeo; Takada, Satoru**
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Ind, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06007434	A2	19940118	JP 1992-189841	19920623
JP 3233691	B2	20011126		

L5 ANSWER 27 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1993-317414 JAPIO
 TITLE: HUMOR TREATING CIRCUIT WITH BYPASS PASSAGE
 INVENTOR: **FURUYOSHI SHIGEO; TAKADA SATORU**

PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 05317414	A	19931203	Heisei	(5) A61M001-14

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1992-174669 19920522
ORIGINAL: JP04174669 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 1176, Vol. 18, No. 134, P. 7
(19940304)

L5 ANSWER 28 OF 63 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 4
ACCESSION NUMBER: 1990:574354 CAPLUS
DOCUMENT NUMBER: 113:174354
TITLE: Manufacture of long chain alkyl-containing cellulose
acetate ethers
INVENTOR(S): Iritani, Hiroshi; **Furuyoshi, Shigeo**; Takada,
Satoru; Tani, Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02129201	A2	19900517	JP 1988-281709	19881108

L5 ANSWER 29 OF 63 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 5
ACCESSION NUMBER: 1990:412105 CAPLUS
DOCUMENT NUMBER: 113:12105
TITLE: Adsorbents for .beta.2-microglobulin in therapeutic
extracorporeal circulation
INVENTOR(S): **Furuyoshi, Shigeo**; Tani, Nobutaka; Takada,
Satoru
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01277570	A2	19891108	JP 1988-106613	19880428
JP 06011334	B4	19940216		

L5 ANSWER 30 OF 63 USPATFULL
ACCESSION NUMBER: 89:20916 USPATFULL
TITLE: Lipoprotein adsorbent and apparatus for removing
lipoproteins using the same
INVENTOR(S): **Furuyoshi, Shigeo**, Kobe, Japan
Tani, Nobutaka, Osaka, Japan
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan
(non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 4814077 19890321
APPLICATION INFO.: US 1987-12232 19870209 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-27727	19860210
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Cintins, Ivars	
LEGAL REPRESENTATIVE:	Armstrong, Nikaido, Marmelstein & Kubovcik	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1,6	
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	576	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 31 OF 63 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 6
ACCESSION NUMBER: 1989:474340 CAPLUS
DOCUMENT NUMBER: 111:74340
TITLE: Adsorbent for removal of lipoproteins and apparatus containing the adsorbent
INVENTOR(S): **Furuyoshi, Shigeo**; Tani, Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63208764	A2	19880830	JP 1987-42436	19870225
JP 06011322	B4	19940216		

L5 ANSWER 32 OF 63 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 7
ACCESSION NUMBER: 1988:597166 CAPLUS
DOCUMENT NUMBER: 109:197166
TITLE: Styrene polymer porous adsorbents for removal of amyloid protein precursors from blood
INVENTOR(S): Tani, Nobutaka; **Furuyoshi, Shigeo**; Ogino, Ei-ji
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63122463	A2	19880526	JP 1986-268054	19861111
JP 06011332	B4	19940216		

L5 ANSWER 33 OF 63 USPATFULL
ACCESSION NUMBER: 88:30845 USPATFULL
TITLE: Sterilization of adsorbent and column having improved storability including sterilized adsorbent for use in extracorporeal circulation treatment
INVENTOR(S): Tani, Nobutaka, Minoo, Japan
Okuyama, Tsutomu, Kobe, Japan
Furuyoshi, Shigeo, Kobe, Japan

PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4744899		19880517
APPLICATION INFO.:	US 1985-789540		19851021 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1984-221861	19841022
	JP 1984-221862	19841022
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Cintins, Ivars	
LEGAL REPRESENTATIVE:	Armstrong, Nikaido, Marmelstein & Kubovcik	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
LINE COUNT:	548	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 34 OF 63 USPATFULL
ACCESSION NUMBER: 88:5643 USPATFULL
TITLE: Adsorbent for .beta..sub.2 -microglobulin and immunoglobulin L-chain
INVENTOR(S): **Furuyoshi, Shigeo**, Kobe, Japan
Ogino, Eiji, Kobe, Japan
Tani, Nobutaka, Osaka, Japan
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4721730		19880126
APPLICATION INFO.:	US 1987-55387		19870529 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-126000	19860530
	JP 1986-222287	19860919
	JP 1986-222288	19860919
	JP 1986-222289	19860919
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Foelak, Morton	
LEGAL REPRESENTATIVE:	Armstrong, Nikaido, Marmelstein & Kubovcik	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	595	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 35 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1988-099875 JAPIO
TITLE: BETA 2-MICROGLOBULIN ADSORBING BODY FOR TREATMENT OF EXTRACORPHOREAL CIRCULATION
INVENTOR: **FURUYOSHI SHIGEO**; OGINO EIJI; TANI NOBUTAKA
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 63099875	A	19880502	Showa	(4) A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1986-222287
 ORIGINAL: JP61222287
 L5 ANSWER 36 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1988-077458
 JAPIO
 TITLE: IMMUNOGLOBULIN LIGHT CHAIN ADSORBING BODY FOR
 EXTRAACORPOREAL CIRCULATION REMEDY
 INVENTOR: OGINO EIJI; FURUYOSHI SHIGEO; TANI NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 63077458	A	19880407	Showa	(4) A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1986-222287
 ORIGINAL: JP61222287
 L5 ANSWER 37 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1988-077457
 JAPIO
 TITLE: IMMUNOGLOBULIN L CHAIN ADSORBING BODY FOR
 EXTRAACORPOREAL CIRCULATION REMEDY
 INVENTOR: OGINO EIJI; FURUYOSHI SHIGEO; TANI NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 63077457	A	19880407	Showa	(4) A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1986-222288
 ORIGINAL: JP61222288
 L5 ANSWER 38 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:637070 CAPLUS
 DUPLICATE 8
 DOCUMENT NUMBER: 109:237070
 TITLE: Adsorptive column with improved storage stability for
 extracorporeal circulation therapy
 INVENTOR(S): FURUYOSHI, Shigeo; Tani, Nobutaka; Okuyama, Tsutomu
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62224362	A2	19871002	JP 1986-69114	19860327
JP 06026568	B4	19940413		

L5 ANSWER 39 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1988:156460 CAPLUS
 DOCUMENT NUMBER: 108:156460
 TITLE: Immobilized primary amine adsorbent for
 .beta.2-microglobulin and immunoglobulin L-chain, for

INVENTOR(S): use in dialysis

Furuyoshi, Shigeo; Ogino, Eiji; Tani,
Nobutaka

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan

Source: Eur. Pat. Appl., 13 pp.

CODEN: EPXXDM

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE

EP 247592 A2 19871202

EP 247592 A3 19880810

EP 247592 B1 19920304

JP 63077457 A2 19880407

JP 05016901 B4 19930305

JP 63099875 A2 19880502

JP 05028151 B4 19930423

JP 06016839 B4 19940309

CA 1285925 A1 19910709

US 4721730 A 19880126

JP 1986-126000 1986-126000

JP 1986-222287 1986-222287

JP 1986-222288 1986-222288

JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

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JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

JP 1986-222289 1986-222289

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 230247	A2	19870729	EP 1987-100297	19870113
EP 230247	A3	19880217		
R: BE, DE, FR, GB, IT				
JP 62191041	A2	19870821	JP 1986-5535	19860114
JP 06016842	B4	19940309		
JP 62211073	A2	19870917	JP 1986-53959	19860312
JP 05092036	A2	19930416		
JP 07038881	B4	19950501	JP 1986-5535	19860114
PRIORITY APPLN. INFO.:				
	JP	1986-53959		19860312

L5 ANSWER 42 OF 63 USPTAFULL
ACCESSION NUMBER: 87:24631 USPTAFULL
TITLE: Lipoprotein adsorbent for use in extracorporeal circulation treatment and process for preparing thereof
INVENTOR(S): Tani, Nobutaka, Minoo, Japan
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan (non-U.S. corporation)

NUMBER	KIND	DATE
US 4656261		19870407
US 1985-789537		19851021 (6)

PRIORITY INFORMATION:

JP 1984-231012	19841031	JP 1985-110775	19850523
DOCUMENT TYPE: Utility			
FILE SEGMENT: Granted			
PRIMARY EXAMINER: Foelak, Morton			
LEGAL REPRESENTATIVE: Armstrong, Nikaido, Marmelstein & Kubovcik			
NUMBER OF CLAIMS: 1			
EXEMPLARY CLAIM: 1			
NUMBER OF DRAWINGS: 1			
DRAWING FIGURE(S): 1 Drawing Page(s)			
LINE COUNT: 488			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 43 OF 63 USPTAFULL
ACCESSION NUMBER: 87:22635 USPTAFULL
TITLE: Lipoprotein adsorbent for use in extracorporeal circulation treatment and process for preparing thereof
INVENTOR(S): Furuyoshi, Shigeo, Kobe, Japan
PATENT ASSIGNEE(S): Tani, Nobutaka, Minoo, Japan
Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan (non-U.S. corporation)

NUMBER	KIND	DATE
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US 4654420		19870331
US 1986-877089		19860623 (6)
Division of Ser. No. US 1985-789537, filed on 21 Oct 1985		

PATENT INFORMATION:
APPLICATION INFO.:
RELATED APPLN. INFO.:

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1984-231012	19841031
	JP 1985-110775	19850523
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Foelak, Morton	
LEGAL REPRESENTATIVE:	Armstrong, Nikaido, Marmelstein & Kubovcik	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	495	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 44 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1987-224363 JAPIO
 TITLE: STERILIZATION OF ADSORBENT
 INVENTOR: **FURUYOSHI SHIGEO**; TANI NOBUTAKA; OKUYAMA
 TSUTOMU
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 62224363	A	19871002	Showa	(4) A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1986-69115	19860327
ORIGINAL:	JP61069115	Showa

L5 ANSWER 45 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1987-211073 JAPIO
 TITLE: ADSORBENT FOR COMPLIANT COMPONENT
 INVENTOR: TANI NOBUTAKA; HAYASHI TSUNEO; **FURUYOSHI SHIGEO**; NAGANO YOKO
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 62211073	A	19870917	Showa	(4) A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1986-53959	19860312
ORIGINAL:	JP61053959	Showa

L5 ANSWER 46 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1987-186940 JAPIO
 TITLE: ADSORBENT FOR LIPOPROTEIN
 INVENTOR: **FURUYOSHI SHIGEO**; TANI NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 62186940	A	19870815	Showa	(4) B01J020-22

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1986-27727	19860210
ORIGINAL:	JP61027727	Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 473, Vol. 12, No. 37, P. 136
(19880204)

L5 ANSWER 47 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1986:412191 CAPLUS
DOCUMENT NUMBER: 105:12191
TITLE: Sterilization of the polysaccharide adsorbent used for
extracorporeal blood circulation treatment
INVENTOR(S): Tani, Nobutaka; Okuyama, Tsutomu; **Furuyoshi,**
Shigeo
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 179420	A2	19860430	EP 1985-113283	19851019
EP 179420	A3	19880224		
EP 179420	B1	19910109		
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 05047223	B4	19930716	JP 1984-221861	19841022
JP 05047224	B4	19930716	JP 1984-221862	19841022
CA 1250276	A1	19890221	CA 1985-493224	19851017
CN 85109640	A	19860702	CN 1985-109640	19851021
US 4744899	A	19880517	US 1985-789540	19851021
FI 90206	B	19930930	FI 1985-4096	19851021
FI 90206	C	19940110		
ZA 8508104	A	19860625	ZA 1985-8104	19851022
JP 08052303	A2	19960227	JP 1995-123298	19950523
JP 2578588	B2	19970205		
PRIORITY APPLN. INFO.:			JP 1984-221861	19841022
			JP 1984-221862	19841022

L5 ANSWER 48 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1986-268355 JAPIO
TITLE: LIPOPROTEIN ADSORBENT FOR EXTERNAL CIRCULATION
TREATMENT AND ITS PREPARATION
INVENTOR: **FURUYOSHI SHIGEO; TANI NOBUTAKA**
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 61268355	A	19861127	Showa	(4) B01J020-26

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1985-110775 19850523
ORIGINAL: JP60110775 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 418, Vol. 11, No. 133, P. 9
(19870425)

L5 ANSWER 49 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1986-100262 JAPIO
TITLE: ADSORPTION COLUMN FOR EXTERNAL BODY RECIRCULATION
TREATMENT IMPROVED IN STORAGE STABILITY
INVENTOR: TANI NOBUTAKA; OKUYAMA TSUTOMU; **FURUYOSHI**
SHIGEO

PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 61100262	A	19860519	Showa	(4) A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1984-221862 19841022
ORIGINAL: JP59221862 Showa

L5 ANSWER 50 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1986-100261 JAPIO
TITLE: STERILIZATION OF ADSORBING BODY
INVENTOR: TANI NOBUTAKA; OKUYAMA TSUTOMU; **FURUYOSHI SHIGEO**
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 61100261	A	19860519	Showa	(4) A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1984-221861 19841022
ORIGINAL: JP59221861 Showa

L5 ANSWER 51 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1986:89003 CAPLUS
DOCUMENT NUMBER: 104:89003
TITLE: Synthesis and polymerization of N-acryloyl- and N-methacryloylaminomethyl crown ethers
AUTHOR(S): Nakatsuji, Yohji; **Furuyoshi, Shigeo**; Okahara, Mitsuo; Takemoto, Kiichi
CORPORATE SOURCE: Fac. Eng., Osaka Univ., Osaka, Japan
SOURCE: Makromol. Chem. (1986), 187(1), 105-9
CODEN: MACEAK; ISSN: 0025-116X
DOCUMENT TYPE: Journal
LANGUAGE: English

L5 ANSWER 52 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1984:34523 CAPLUS
DOCUMENT NUMBER: 100:34523
TITLE: Synthesis of N-unsubstituted di- and triaza crown ethers
AUTHOR(S): Maeda, Hirokazu; **Furuyoshi, Shigeo**; Nakatsuji, Yohji; Okahara, Mitsuo
CORPORATE SOURCE: Fac. Eng., Osaka Univ., Suita, 565, Japan
SOURCE: Bull. Chem. Soc. Jpn. (1983), 56(10), 3073-7
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 100:34523

L5 ANSWER 53 OF 63 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1983:179347 CAPLUS
DOCUMENT NUMBER: 98:179347
TITLE: Synthesis of monoaza crown ethers from N,N-bis[oligo(oxyalkylene)]amines and oligoethylene glycol bis(p-toluenesulfonates) or corresponding dichlorides
AUTHOR(S): Maeda, Hirokazu; **Furuyoshi, Shigeo**;

CORPORATE SOURCE: Nakatsuji, Yohji; Okahara, Mitsuo
 SOURCE: Fac. Eng., Osaka Univ., Suita, 565, Japan
 Bull. Chem. Soc. Jpn. (1983), 56(1), 212-18
 CODEN: BCSJA8; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 98:179347

L5 ANSWER 54 OF 63 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1983:405613 CAPLUS
 DOCUMENT NUMBER: 99:5613
 TITLE: Intramolecular cyclization of N,N-bis(oligooxyethylene)amines: a new synthesis of monoaza crown ethers
 AUTHOR(S): Maeda, Hirokazu; **Furuyoshi, Shigeo**;
 Nakatsuji, Yohji; Okahara, Mitsuo
 CORPORATE SOURCE: Dep. Appl. Chem., Osaka Univ., Osaka, 565, Japan
 SOURCE: Tetrahedron (1982), 38(22), 3359-62
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 99:5613

L5 ANSWER 55 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2001-219062 JAPIO
 TITLE: PEPTIDOGLYCAN ADSORBING MATERIAL, AND METHOD AND DEVICE FOR ADSORBING/REMOVING PEPTIDOGLYCAN
 INVENTOR: HIRAI FUMIYASU; **FURUYOSHI SHIGEO**
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001219062A		20010814	Heisei	B01J020-24

JP

APPLICATION INFORMATION

ST19N FORMAT: JP2000-338945 20001107
 ORIGINAL: JP2000338945 Heisei
 PRIORITY APPLN. INFO.: JP1999 343164 19991202
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 56 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2001-129077 JAPIO
 TITLE: FILTER TO PREVENT FILLED ARTICLE FORM FLOWING OUT, AND ADSORBER EQUIPPED WITH THE SAME
 INVENTOR: ITO SHINJI; NANKO AKITAKE; **FURUYOSHI SHIGEO**
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001129077A		20010515	Heisei	A61M001-00

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1999-312104 19991102
 ORIGINAL: JP11312104 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 57 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2001-114802 JAPIO

TITLE: MODIFICATION METHOD OF CELLULOSE AND BLOOD PURIFIER
INVENTOR: NAKATANI MASARU; KOBAYASHI AKIRA; **FURUYOSHI SHIGEO**
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001114802A		20010424	Heisei	C08B015-00

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1999-299435 19991021
ORIGINAL: JP11299435 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 58 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2001-286554 JAPIO
TITLE: ADSORBER FOR DILATED CARDIOMYOPATHY
INVENTOR: OGINO EIJI; **FURUYOSHI SHIGEO**; HIRAI FUMIYASU; NISHIMOTO TAKEHIRO
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001286554A		20011016	Heisei	A61M001-36

JP
APPLICATION INFORMATION
ST19N FORMAT: JP2000-106915 20000407
ORIGINAL: JP2000106915 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 59 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2001-218840 JAPIO
TITLE: ADSORBENT FOR TRANSFORMING GROWTH FACTOR. BETA, ADSORBING/REMOVING METHOD, AND ADSORBER
INVENTOR: HIRAI FUMIYASU; FUJIMOTO TAMIJI; **FURUYOSHI SHIGEO**
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001218840A		20010814	Heisei	A61M001-36

JP
APPLICATION INFORMATION
ST19N FORMAT: JP2000-035168 20000214
ORIGINAL: JP2000035168 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 60 OF 63 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2001-204500 JAPIO
TITLE: METHOD FOR ADSORBING AND REMOVING LIPOPROTEIN
INVENTOR: KOBAYASHI AKIRA; NAKATANI MASARU; OKUYAMA TSUTOMU; **FURUYOSHI SHIGEO**; TANI NOBUTAKA
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001204500A		20010731	Heisei	C12S003-14

JP

APPLICATION INFORMATION

ST19N FORMAT: JP2000-019249 20000127

ORIGINAL: JP2000019249 Heisei

SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 61 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2001-204816 JAPIO
 TITLE: BODY FLUID TREATMENT DEVICE FOR DIRECT BLOOD PERFUSION
 INVENTOR: OKUYAMA TSUTOMU; NAKATANI MASARU; KOBAYASHI AKIRA;
 ICHIMURA MASANORI; **FURUYOSHI SHIGEO**
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001204816A		20010731	Heisei	A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP2000-015433 20000125

ORIGINAL: JP2000015433 Heisei

SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2001

L5 ANSWER 62 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2000-288388 JAPIO
 TITLE: ADSORBENT FOR TUMOR NECROSIS FACTOR-ALPHA, METHOD FOR
 ADSORPTION/REMOVAL, AND ADSORPTION DEVICE
 INVENTOR: HIRAI FUMIYASU; **FURUYOSHI SHIGEO**; TANI
 NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2000288388A		20001017	Heisei	B01J020-26

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1999-093580 19990331

ORIGINAL: JP11093580 Heisei

SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2000

L5 ANSWER 63 OF 63 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2000-271214 JAPIO
 TITLE: METHOD FOR REDUCING BIOACTIVITY OF ENDOTOXIN
 INVENTOR: FUJIMOTO TAMIJI; HIRAI FUMIYASU; NAKATANI MASARU;
FURUYOSHI SHIGEO; TANI NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2000271214A		20001003	Heisei	A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1999-077711	19990323
ORIGINAL:	JP11077711	Heisei
SOURCE:	PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2000	

=>

L2 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:586383 CAPLUS
 DOCUMENT NUMBER: 135:157749
 TITLE: Adsorbents and apparatus for removing transforming growth factor .beta. (TGF-.beta.) from body fluid, and method for the removal
 INVENTOR(S): Hirai, Fumiyasu; **Fujimoto, Tamiji**; Furuyoshi, Shigeo
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001218840	A2	20010814	JP 2000-35168	20000214
US 2001021525	A1	20010913	US 2001-773598	20010202
EP 1142633	A1	20011010	EP 2001-102701	20010206

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: JP 2000-35168 A 20000214

L2 ANSWER 2 OF 31 USPATFULL
 ACCESSION NUMBER: 2001:155594 USPATFULL
 TITLE: Adsorbent for transforming growth factor-beta, method for removing the transforming growth factor-beta by adsorption and adsorber packed with the adsorbent
 INVENTOR(S): Hirai, Fumiyasu, Ibaraki-shi, Japan
Fujimoto, Tamiji, Settsu-shi, Japan
 Furuyoshi, Shigeo, Kobe-shi, Japan
 PATENT ASSIGNEE(S): KANEKA CORPORATION, Osaka-shi, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001021525	A1	20010913
APPLICATION INFO.:	US 2001-773598	A1	20010202 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-35168	20000214
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ARMSTRONG, WESTERMAN, HATTORI,, MCLELAND & NAUGHTON, LLP, 1725 K STREET, NW, SUITE 1000, WASHINGTON, DC, 20006	

NUMBER OF CLAIMS: 5
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 2 Drawing Page(s)
 LINE COUNT: 600
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:693492 CAPLUS
 TITLE: The method of decreasing the biological activity of the ended toxin. [Machine Translation].
 INVENTOR(S): **Fujimoto, Tamiji**; Hirai, Fumiyasu; Nakaya, Masaru; Furuyoshi, Shigeo; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000271214	A2	20001003	JP 1999-77711	19990323

L2 ANSWER 4 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1998-128444 JAPIO
TITLE: APPARATUS FOR STRAIGHTENING THIN STRIP
INVENTOR: SHINKAI TETSUYA; SASAKI AKIHIKO; **FUJIMOTO TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 10128444	A	19980519	Heisei	(6) B21C047-26

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1996-286438 19961029
ORIGINAL: JP08286438 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 98, No. 5

L2 ANSWER 5 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1998-034236 JAPIO
TITLE: TENSION LEVELER
INVENTOR: **FUJIMOTO TAMIJI**; SHINKAI TETSUYA; YOKOMICHI SEIJI
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 10034236	A	19980210	Heisei	(6) B21D001-05

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1996-198835 19960729
ORIGINAL: JP08198835 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 98, No. 2

L2 ANSWER 6 OF 31 USPATFULL
ACCESSION NUMBER: 96:75134 USPATFULL
TITLE: Method for producing microgranulated particle
INVENTOR(S): Yano, Yoshiaki, Kakogawa, Japan
Fujimoto, Tamiiji, Kobe, Japan
Hidaka, Takayoshi, Kobe, Japan
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5547683		19960820
	WO 9408709		19940428
APPLICATION INFO.:	US 1994-244375		19940608 (8)
	WO 1993-JP1442		19931006
			19940608 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1992-297905	19921009
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Azpuru, Carlos	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch, LLP	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	587	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 31 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1996-224617 JAPIO
 TITLE: TENSION LEVELER
 INVENTOR: MORII SHIGEKI; NAGAI NAOYUKI; TOKIYASU KOICHI;
FUJIMOTO TAMIJI
 PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08224617	A	19960903	Heisei	(6) B21D001-05

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1995-56788 19950222
 ORIGINAL: JP07056788 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
 Applications, Vol. 96, No. 9

L2 ANSWER 8 OF 31 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1995-290147 JAPIO
 TITLE: TENSION LEVELER
 INVENTOR: MORII SHIGEKI; KATAYAMA KEIICHI; NAGAI NAOYUKI;
 TOKIYASU KOICHI; **FUJIMOTO TAMIJI**
 PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 07290147	A	19951107	Heisei	(6) B21D001-05

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1994-84340 19940422
 ORIGINAL: JP06084340 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
 Applications, Vol. 95, No. 11

L2 ANSWER 9 OF 31 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1995-060351 JAPIO
 TITLE: TENSION LEVELER
 INVENTOR: MORII SHIGEKI; KATAYAMA KEIICHI; NAGAI NAOYUKI; TSUBOI
 MAMORU; **FUJIMOTO TAMIJI**
 PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 07060351	A	19950307	Heisei	(6) B21D001-05

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1993-211176 19930826
ORIGINAL: JP05211176 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 95, No. 3

L2 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1994:418084 CAPLUS
DOCUMENT NUMBER: 121:18084
TITLE: Production method for fine granulate
INVENTOR(S): Yano, Yoshiaki; **Fujimoto, Tami**ji; Hidaka,
Takayoshi
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9408709	A1	19940428	WO 1993-JP1442	19931006
W: CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2124568	AA	19940428	CA 1993-2124568	19931006
EP 616841	A1	19940928	EP 1993-922047	19931006
EP 616841	B1	19981223		
R: BE, CH, DE, ES, FR, GB, IT, LI				
ES 2124794	T3	19990216	ES 1993-922047	19931006
CN 1091628	A	19940907	CN 1993-118594	19931009
US 5547683	A	19960820	US 1994-244375	19940608
PRIORITY APPLN. INFO.:			JP 1992-297905	19921009
			WO 1993-JP1442	19931006

L2 ANSWER 11 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1993-000323 JAPIO
TITLE: ROLL-CHANGING DEVICE FOR TENSION LEVELER
INVENTOR: KITAMOTO SHINJI; **FUJIMOTO TAMI**JI
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 05000323	A	19930108	Heisei	(5) B21D001-05

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1991-153203 19910625
ORIGINAL: JP03153203 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: M, Sect. No. 1413, Vol. 17, No. 256, P. 155
(19930520)

L2 ANSWER 12 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1991-008522 JAPIO
TITLE: VARIABLE CROWN ROLL UNIT FOR TENSION LEVELLER
INVENTOR: KITAMOTO SHINJI; **FUJIMOTO TAMI**JI
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
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JP 03008522 A 19910116 Heisei (5) B21D001-05

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1989-142202 19890606
ORIGINAL: JP01142202 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: M, Sect. No. 1095, Vol. 15, No. 117, P. 31
(19910320)

L2 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:549160 CAPLUS
DOCUMENT NUMBER: 113:149160
TITLE: Tachyplesins isolated from hemocytes of Southeast
Asian horseshoe crabs (Carcinoscorpius rotundicauda
and Tachyplesus gigas): identification of a new
tachyplesin, tachyplesin III, and a processing
intermediate of its precursor
AUTHOR(S): Muta, Tatsushi; **Fujimoto, Tamiji**; Nakajima,
Hiroshi; Iwanaga, Sadaaki
CORPORATE SOURCE: Fac. Sci., Kyushu Univ., Fukuoka, 812, Japan
SOURCE: J. Biochem. (Tokyo) (1990), 108(2), 261-6
CODEN: JOBIAO; ISSN: 0021-924X
DOCUMENT TYPE: Journal
LANGUAGE: English

L2 ANSWER 14 OF 31 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1988-286298 JAPIO
TITLE: EMERGENCY SHUTDOWN CONTROLLER FOR BRIQUETTING MACHINE
INVENTOR: **FUJIMOTO TAMIJI**; TACHIHARA TOMOAKI;
SHINOHARA SHIZUO
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
RIYOUSEN ENG KK, JP (CO 472560)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 63286298	A	19881122	Showa	(4) B30B011-16

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1987-119104 19870518
ORIGINAL: JP62119104 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: M, Sect. No. 804, Vol. 13, No. 94, P. 69
(19890306)

L2 ANSWER 15 OF 31 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1984-153599 JAPIO
TITLE: BRIQUETTING MACHINE
INVENTOR: OTAWA KIMIAKI; TAKAHASHI HIROYOSHI; **FUJIMOTO
TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 59153599	A	19840901	Showa	(3) B30B011-16

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1983-27037 19830222
ORIGINAL: JP58027037 Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: M, Sect. No. 348, Vol. 8, No. 2841, P. 162
(19841226)

L2 ANSWER 16 OF 31 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1984-133334 JAPIO
TITLE: COMPRESSION MOLDING MACHINE HAVING MIXING FUNCTION
INVENTOR: ITANO SHIGEO; NAKAGAWA YOSHIKIYO; OTAWA KIMIYAKI;
TAKAHASHI HIROYOSHI; **FUJIMOTO TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 59133334	A	19840731	Showa	(3) C22B001-248

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1983-6646 19830120
ORIGINAL: JP58006646 Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 253, Vol. 8, No. 2551, P. 72
(19841121)

L2 ANSWER 17 OF 31 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1984-126728 JAPIO
TITLE: COMPRESSION MOLDING DEVICE OF REDUCED IRON
INVENTOR: ITANO SHIGEO; NAKAGAWA YOSHIKIYO; OTAWA KIMIYAKI;
TAKAHASHI HIROYOSHI; **FUJIMOTO TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 59126728	A	19840721	Showa	(3) C22B001-248

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1983-1718 19830111
ORIGINAL: JP58001718 Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 251, Vol. 8, No. 2461, P. 100
(19841110)

L2 ANSWER 18 OF 31 JAPIO COPYRIGHT 2002 JPO

ACCESSION NUMBER: 1984-080323 JAPIO
TITLE: COMPRESSION MOLDING APPARATUS HAVING MIXING FUNCTION
INVENTOR: ITANO SHIGEO; NAKAGAWA YOSHIKIYO; OTAWA KIMIYAKI;
FUJIMOTO TAMIJI
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 59080323	A	19840509	Showa	(3) B01J002-22

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1982-187544 19821027
ORIGINAL: JP57187544 Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 239, Vol. 8, No. 1841, P. 134
(19840823)

L2 ANSWER 19 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1983-024332 JAPIO
TITLE: PRODUCING DEVICE FOR BRIQUETTE OF REDUCED IRON
INVENTOR: OTAWA KIMIAKI; TAKAHASHI HIROYOSHI; **FUJIMOTO
TAMIJI**; FUKADA YASUO
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 58024332	A	19830214	Showa	(3) B01J002-22

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1981-121874 19810805
ORIGINAL: JP56121874 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 163, Vol. 7, No. 951, P. 141
(19830423)

L2 ANSWER 20 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1983-024331 JAPIO
TITLE: PRODUCING DEVICE FOR BRIQUETTE OF REDUCED IRON
INVENTOR: OTAWA KIMIAKI; TAKAHASHI HIROYOSHI; **FUJIMOTO
TAMIJI**; FUKADA YASUO
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 58024331	A	19830214	Showa	(3) B01J002-22

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1981-121873 19810805
ORIGINAL: JP56121873 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 163, Vol. 7, No. 951, P. 140
(19830423)

L2 ANSWER 21 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1981-032286 JAPIO
TITLE: BUCKET TYPE PULVERULENT AND GRANULAR BODY CONTROL
VALVE
INVENTOR: HIROOKA YOSHITAKA; TAKAHASHI HIROYOSHI; **FUJIMOTO
TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 56032286	A	19810401	Showa	(3) B65D090-58

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1979-106001 19790822
ORIGINAL: JP54106001 Showa

L2 ANSWER 22 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1979-137119 JAPIO
TITLE: VALVE
INVENTOR: OTAWA KIMIAKI; TAKAHASHI HIROYOSHI; **FUJIMOTO
TAMIJI**; FUKADA YASUO
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)

PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 54137119	A	19791024	Showa	(2) F16K025-00

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1978-44147	19780417
ORIGINAL:	JP53044147	Showa

L2 ANSWER 23 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1979-112307 JAPIO
TITLE: CUTTING APPARATUS FOR CONTENTS OF SHAFT FURNACE
INVENTOR: OTAWA KIMIYAKI; TAKAHASHI HIROYOSHI; **FUJIMOTO TAMIJI**; FUKADA YASUO
PATENT ASSIGNEE(S): AGENCY OF IND SCIENCE & TECHNOL, JP (GO 000114)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 54112307	A	19790903	Showa	(2) F27B001-20

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1978-19124	19780223
ORIGINAL:	JP53019124	Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 63, Vol. 3, No. 1331, P. 68
(19791107)

L2 ANSWER 24 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1979-112306 JAPIO
TITLE: CUTTING APPARATUS FOR CONTENTS OF SHAFT FURNACE
INVENTOR: OTAWA KIMIYAKI; **FUJIMOTO TAMIJI**; TAKAHASHI HIROYOSHI
PATENT ASSIGNEE(S): AGENCY OF IND SCIENCE & TECHNOL, JP (GO 000114)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 54112306	A	19790903	Showa	(2) F27B001-20

JP

APPLICATION INFORMATION

ST19N FORMAT:	JP1978-19123	19780223
ORIGINAL:	JP53019123	Showa

SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 63, Vol. 3, No. 1331, P. 68
(19791107)

L2 ANSWER 25 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1978-026708 JAPIO
TITLE: DRAWING OUT APPARATUS FOR DIRECT REDUCTION SHAFT FURNACE
INVENTOR: OTAWA KIMIYAKI; **FUJIMOTO TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 53026708	A	19780313	Showa	(2) F27B001-20

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1976-101460 19760825
ORIGINAL: JP51101460 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 14, Vol. 2, No. 721, P. 730
(19780531)

L2 ANSWER 26 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1978-016366 JAPIO
TITLE: SOLID-GAS CONTACTING APPARATUS
INVENTOR: OTAWA MASAOKI; **FUJIMOTO TAMIJI**; ITANO SHIGEO
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 53016366	A	19780215	Showa	(2) B01J008-12

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1976-90220 19760730
ORIGINAL: JP51090220 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 12, Vol. 2, No. 591, P. 410
(19780427)

L2 ANSWER 27 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1978-012712 JAPIO
TITLE: FORMING METHOD FOR REDUCED IRON
INVENTOR: OTAWA KIMIYAKI; **FUJIMOTO TAMIJI**
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 53012712	A	19780204	Showa	(2) C22B001-14

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1976-87147 19760723
ORIGINAL: JP51087147 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: C, Sect. No. 11, Vol. 2, No. 521, P. 276
(19780414)

L2 ANSWER 28 OF 31 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1977-135946 JAPIO
TITLE: COUPLED IRON MANUFACTURING AND POWER GENERATING
INSTALLATION
INVENTOR: OTAWA KIMIYAKI; **FUJIMOTO TAMIJI**; ITANO SHIGEO
PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 52135946	A	19771114	Showa	(2) F01K025-14

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1976-52108 19760510
ORIGINAL: JP51052108 Showa
SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
Section: M, Sect. No. 7, Vol. 2, No. 211, P. 7279
(19780210)

L2 ANSWER 29 OF 31 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1977-016417 JAPIO
 TITLE: PROCESS FOR PRODUCTION OF REDUCED IRON FROM FINE IRON
 ORE
 INVENTOR: HANASAKI MIKI; MISU HIKARI; **FUJIMOTO TAMIJI**
 PATENT ASSIGNEE(S): MITSUBISHI HEAVY IND LTD, JP (CO 000620)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 52016417	A	19770207	Showa	(2) C21B013-00

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1975-91849 19750730
 ORIGINAL: JP50091849 Showa
 SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
 Section: C, Sect. No. 14, Vol. 1, No. 541, P. 498
 (19770525)

L2 ANSWER 30 OF 31 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2001-218840 JAPIO
 TITLE: ADSORBENT FOR TRANSFORMING GROWTH FACTOR. BETA,
 ADSORBING/REMOVING METHOD, AND ADSORBER
 INVENTOR: HIRAI FUMIYASU; **FUJIMOTO TAMIJI**; FURUYOSHI
 SHIGEO
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001218840A		20010814	Heisei	A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP2000-035168 20000214
 ORIGINAL: JP2000035168 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
 Applications, Vol. 2001

L2 ANSWER 31 OF 31 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 2000-271214 JAPIO
 TITLE: METHOD FOR REDUCING BIOACTIVITY OF ENDOTOXIN
 INVENTOR: **FUJIMOTO TAMIJI**; HIRAI FUMIYASU; NAKATANI
 MASARU; FURUYOSHI SHIGEO; TANI NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2000271214A		20001003	Heisei	A61M001-36

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1999-077711 19990323
 ORIGINAL: JP11077711 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
 Applications, Vol. 2000

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L8 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:416821 CAPLUS
 DOCUMENT NUMBER: 135:16336
 TITLE: Adsorbent for peptidoglycan, and method and apparatus
 for adsorptively removing peptidoglycan
 INVENTOR(S): **Hirai, Fumiyasu**; Furuyoshi, Shigeo
 PATENT ASSIGNEE(S): Kaneka Corporation, Japan
 SOURCE: PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001039879	A1	20010607	WO 2000-JP8487	20001130
W: US				
RW: DE, FR, GB, IT				
JP 2001219062	A2	20010814	JP 2000-338945	20001107
PRIORITY APPLN. INFO.:			JP 1999-343164	A 19991202
			JP 2000-338945	A 20001107
REFERENCE COUNT:	29	THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L8 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:752838 CAPLUS
 DOCUMENT NUMBER: 135:308941
 TITLE: Adsorbents for antibodies, adsorption process, and
 apparatus for treatment of dilated cardiomyopathy
 INVENTOR(S): Ogino, Eiichi; Furuyoshi, Shigeo; **Hirai, Fumiyasu**; Nishimoto, Takehiro
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001286554	A2	20011016	JP 2000-106915	20000407
WO 2001076662	A1	20011018	WO 2001-JP3026	20010409
W: CN, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRIORITY APPLN. INFO.:			JP 2000-106915	A 20000407

L8 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:586383 CAPLUS
 DOCUMENT NUMBER: 135:157749
 TITLE: Adsorbents and apparatus for removing transforming
 growth factor .beta. (TGF-.beta.) from body fluid, and
 method for the removal
 INVENTOR(S): **Hirai, Fumiyasu**; Fujimoto, Tamiji;
 Furuyoshi, Shigeo
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001218840	A2	20010814	JP 2000-35168	20000214
US 2001021525	A1	20010913	US 2001-773598	20010202
EP 1142633	A1	20011010	EP 2001-102701	20010206

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: JP 2000-35168 A 20000214

L8 ANSWER 4 OF 34 USPATFULL

ACCESSION NUMBER: 2001:155594 USPATFULL

TITLE: Adsorbent for transforming growth factor-beta, method
for removing the transforming growth factor-beta by
adsorption and adsorber packed with the adsorbent

INVENTOR(S): **Hirai, Fumiyasu**, Ibaraki-shi, Japan
Fujimoto, Tamiji, Settsu-shi, Japan
Furuyoshi, Shigeo, Kobe-shi, Japan

PATENT ASSIGNEE(S): KANEKA CORPORATION, Osaka-shi, Japan (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001021525	A1	20010913
APPLICATION INFO.:	US 2001-773598	A1	20010202 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2000-35168	20000214
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ARMSTRONG, WESTERMAN, HATTORI,, MCLELAND & NAUGHTON, LLP, 1725 K STREET, NW, SUITE 1000, WASHINGTON, DC, 20006	

NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 600
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 34 USPATFULL

ACCESSION NUMBER: 2001:202109 USPATFULL

TITLE: Method for removing toxic shock syndrome toxin-1 in
body fluids by adsorption

INVENTOR(S): **Hirai, Fumiyasu**, Amagasaki, Japan
Ogino, Eiji, Kobe, Japan
Maruyama, Hiroyuki, Kakogawa, Japan
Sakogawa, Takayuki, Takasago, Japan
Asahi, Takashi, Kobe, Japan
Tani, Nobutaka, Osaka, Japan

PATENT ASSIGNEE(S): Kaneka Corporation, Osaka, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6315907	B1	20011113
	WO 9847548		19981029
APPLICATION INFO.:	US 1999-403281		19991019 (9)
	WO 1998-JP1704		19980413
			19991019 PCT 371 date
			19991019 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-103576	19970421

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Cintins, Ivars
LEGAL REPRESENTATIVE: Armstrong, Westerman, Hattori, McLeland & Naughton, LLP
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 590
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 6 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
1

ACCESSION NUMBER: 2001:276095 BIOSIS
DOCUMENT NUMBER: PREV200100276095
TITLE: Endotoxin adsorption system.
AUTHOR(S): **Hirai, Fumiyasu (1)**; Ogino, Eiji; Asahi, Takashi;
Tani, Nobutaka
CORPORATE SOURCE: (1) Amagasaki Japan
ASSIGNEE: Kaneka Corporation, Osaka, Japan
PATENT INFORMATION: US 6132610 October 17, 2000
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Oct. 17, 2000) Vol. 1239, No. 3, pp. No
Pagination. e-file.
ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English

L8 ANSWER 7 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
2

ACCESSION NUMBER: 2000:407839 BIOSIS
DOCUMENT NUMBER: PREV200000407839
TITLE: Adsorbent for serum amyloid protein.
AUTHOR(S): **Hirai, Fumiyasu (1)**; Tani, Nobutaka
CORPORATE SOURCE: (1) Amagasaki Japan
ASSIGNEE: Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka,
Japan
PATENT INFORMATION: US 6037458 March 14, 2000
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Mar. 14, 2000) Vol. 1232, No. 2, pp. No
pagination. e-file.
ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English

L8 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:732763 CAPLUS
DOCUMENT NUMBER: 133:325696
TITLE: Adsorbent for tumor necrosis factor-.alpha. and method
for removal of tumor necrosis factor-.alpha.
INVENTOR(S): **Hirai, Fumiyasu**; Furuyoshi, Shigeo; Tani,
Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000288388	A2	20001017	JP 1999-93580	19990331

L8 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:693492 CAPLUS
 TITLE: The method of decreasing the biological activity of the ended toxin. [Machine Translation].
 INVENTOR(S): Fujimoto, Tamiji; Hirai, Fumiyasu; Nakaya, Masaru; Furuyoshi, Shigeo; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000271214	A2	20001003	JP 1999-77711	19990323

L8 ANSWER 10 OF 34 USPATFULL
 ACCESSION NUMBER: 2000:132000 USPATFULL
 TITLE: Process for adsorbing and removing tumor necrosis factor-.alpha.
 INVENTOR(S): Hirai, Fumiyasu, Amagasaki, Japan
 Tani, Nobutaka, Osaka, Japan
 Asahi, Takashi, Kobe, Japan
 PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan
 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6127528		20001003
APPLICATION INFO.:	US 1999-283964		19990402 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-894052, filed on 12 Aug 1997, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1995-28129	19950216
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Borin, Michael	
LEGAL REPRESENTATIVE:	Kubovcik & Kubovcik	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	620	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 11 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 3
 ACCESSION NUMBER: 1999:341346 BIOSIS
 DOCUMENT NUMBER: PREV199900341346
 TITLE: Adsorbent of interleukins, process for removing the same, and adsorber for the same.
 AUTHOR(S): Hirai, Fumiyasu (1); Tani, Nobutaka; Yasuda, Takamune; Asahi, Takashi; Okubo, Yuji; Odawara, Osamu; Nomura, Michio
 CORPORATE SOURCE: (1) Electrotechnical Lab., Amagasaki Japan
 ASSIGNEE: Kanegafuchi Kagaku Kogyo Kabushiki Kaisha
 PATENT INFORMATION: US 5902877
 SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (02-AUG-99) Vol. 1222, No. 2, pp. NO PAGINATION.
 ISSN: 0098-1133.

DOCUMENT TYPE: Patent
LANGUAGE: English

L8 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 4
ACCESSION NUMBER: 1998:214340 CAPLUS
DOCUMENT NUMBER: 128:286410
TITLE: Adsorption system for endotoxin removal from blood
INVENTOR(S): **Hirai, Fumiyasu**; Ogino, Eiji; Asahi, Koji;
Tani, Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10085328	A2	19980407	JP 1996-248311	19960919
EP 834350	A1	19980408	EP 1997-305545	19970724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6132610	A	20001017	US 1997-905710	19970805
PRIORITY APPLN. INFO.:			JP 1996-248311	A 19960919

L8 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:708969 CAPLUS
DOCUMENT NUMBER: 129:335815
TITLE: Adsorbents for removing toxic shock syndrome toxin-1
from body fluids
INVENTOR(S): **Hirai, Fumiyasu**; Ogino, Eiji; Maruyama,
Hiroyuki; Sakogawa, Takayuki; Asahi, Takashi; Tani,
Nobutaka
PATENT ASSIGNEE(S): Kaneka Corporation, Japan
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9847548	A1	19981029	WO 1998-JP1704	19980413
W: CA, KR, US RW: DE, FR, GB, IT				
JP 10290833	A2	19981104	JP 1997-103576	19970421
EP 993834	A1	20000419	EP 1998-912798	19980413
R: DE, FR, GB, IT				
US 6315907	B1	20011113	US 1999-403281	19991019
PRIORITY APPLN. INFO.:			JP 1997-103576	A 19970421
			WO 1998-JP1704	W 19980413

L8 ANSWER 14 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1998-328565 JAPIO
TITLE: IMMUNITY COMPLEX REMOVING DEVICE
INVENTOR: FUNAHASHI TAKASHI; **HIRAI FUMIYASU**; TANI
NOBUTAKA
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC

JP 10328565 A 19981215 Heisei (6) B01J020-26

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1998-90413 19980402
ORIGINAL: JP10090413 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 98, No. 12

L8 ANSWER 15 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1998-290833 JAPIO
TITLE: ADSORBENT OF TOXIC SHOCK SYNDROME TOXIN-1, ITS
ADSORPTIVELY REMOVING METHOD AND ADSORBER FILLED WITH
THIS ADSORBENT
INVENTOR: **HIRAI FUMIYASU**; OGINO EIJI; MARUYAMA
HIROYUKI; SAKOKAWA TAKAYUKI; ASAHI KOJI; TANI NOBUTAKA
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 10290833	A	19981104	Heisei (6)	A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1997-103576 19970421
ORIGINAL: JP09103576 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 98, No. 11

L8 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 5
ACCESSION NUMBER: 1997:317854 CAPLUS
DOCUMENT NUMBER: 127:23747
TITLE: Polymer adsorbents for bradykinin, removal of
bradykinin from blood, and adsorbing apparatus
INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka; Yasuda,
Takamune; Asahi, Koji
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09075725	A2	19970325	JP 1995-241087	19950920
WO 9710897	A1	19970327	WO 1996-JP2371	19960823
W: CA, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2232190	AA	19970327	CA 1996-2232190	19960823
EP 933128	A1	19990804	EP 1996-927896	19960823
R: DE, FR, GB, IT				
PRIORITY APPLN. INFO.:			JP 1995-241087	19950920
			WO 1996-JP2371	19960823

L8 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:621400 CAPLUS
DOCUMENT NUMBER: 125:257302
TITLE: Adsorbents for removal of tumor necrosis
factor-.alpha. from body fluids
INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka; Asahi,
Takashi

PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9625228	A1	19960822	WO 1996-JP306	19960209
W: CA, JP, US				
RW: DE, FR, GB, IT				
CA 2213079	AA	19960822	CA 1996-2213079	19960209
EP 810027	A1	19971203	EP 1996-901994	19960209
R: DE, FR, GB, IT				
US 6127528	A	20001003	US 1999-283964	19990402
PRIORITY APPLN. INFO.:			JP 1995-28129	U 19950216
			WO 1996-JP306	W 19960209
			US 1997-894052	B3 19970812

L8 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:523995 CAPLUS
 DOCUMENT NUMBER: 125:162762
 TITLE: Adsorbent for endotoxin, tumor necrosis factor- alpha
 or interleukins, method for removal via adsorption,
 and adsorber
 INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka; Yasuda,
 Takamune; Asahi, Takashi
 PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9620042	A1	19960704	WO 1995-JP2500	19951204
W: CA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 08173802	A2	19960709	JP 1994-323308	19941226
JP 08173803	A2	19960709	JP 1994-323309	19941226
JP 08281101	A2	19961029	JP 1995-229298	19950906
CA 2208745	AA	19960704	CA 1995-2208745	19951204
EP 800862	A1	19971015	EP 1995-939386	19951204
R: DE, FR, GB, IT				
PRIORITY APPLN. INFO.:			JP 1994-323308	19941226
			JP 1994-323309	19941226
			JP 1995-28418	19950216
			JP 1995-229298	19950906
			WO 1995-JP2500	19951204

L8 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:354040 CAPLUS
 DOCUMENT NUMBER: 125:8496
 TITLE: Adsorbent for interleukins, method of removal thereof
 by adsorption, and device for adsorption
 INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka; Yasuda,
 Takamune; Asahi, Takashi; Okubo, Yuji; Odawara, Osamu;
 Nomura, Michio
 PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 36 pp.

DOCUMENT TYPE: CODEN: PIXXD2
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: 1 Japanese
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9609115	A1	19960328	WO 1995-JP1859	19950918
W: CA, JP, US				
RW: DE, GB				
EP 729784	A1	19960904	EP 1995-931435	19950918
R: DE, GB				
US 5902877	A	19990511	US 1996-646266	19960520
PRIORITY APPLN. INFO.:			JP 1994-226906	19940921
			JP 1995-40882	19950228
			WO 1995-JP1859	19950918

L8 ANSWER 20 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1996-281101 JAPIO
TITLE: ADSORBENT, ADSORBING AND REMOVING METHOD AND ADSORBING
DEVICE FOR INTERLEUKINS
INVENTOR: HIRAI FUMIYASU; YASUDA TAKAMUNE; ASAHI KOJI;
TANI NOBUTAKA
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08281101	A	19961029	Heisei	(6) B01J020-26

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1995-229298 19950906
ORIGINAL: JP07229298 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 96, No. 10

L8 ANSWER 21 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1996-173803 JAPIO
TITLE: ENDOTOXIN ADSORBENT, ADSORBING AND REMOVING METHOD AND
ADSORBING UNIT
INVENTOR: HIRAI FUMIYASU; TANI NOBUTAKA; ASAHI KOJI
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08173803	A	19960709	Heisei	(6) B01J020-26

JP
APPLICATION INFORMATION
ST19N FORMAT: JP1994-323309 19941226
ORIGINAL: JP06323309 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 96, No. 7

L8 ANSWER 22 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 1996-173802 JAPIO
TITLE: TUMOR NECROSIS FACTOR-ALPHA ADSORBENT, ADSORBING AND
REMOVING METHOD AND ADSORBER
INVENTOR: HIRAI FUMIYASU; TANI NOBUTAKA; ASAHI KOJI
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 08173802	A	19960709	Heisei	(6) B01J020-26

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1994-323308 19941226
ORIGINAL: JP06323308 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 96, No. 7

L8 ANSWER 23 OF 34 USPATFULL
ACCESSION NUMBER: 93:44361 USPATFULL
TITLE: Adsorbent for serum amyloid protein
INVENTOR(S): **Hirai, Fumiyasu**, Amagasaki, Japan
Tani, Nobutaka, Osaka, Japan
PATENT ASSIGNEE(S): Kanegafuchi Kagaku Kogyo Kabushiki Kaisha, Osaka, Japan
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5216127		19930601
APPLICATION INFO.:	US 1991-729234		19910712 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1988-272960, filed on 18 Nov 1988, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1987-294810	19871120
	JP 1987-294811	19871120
	JP 1987-330617	19871225
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Rollins, John W.	
LEGAL REPRESENTATIVE:	Armstrong, Westerman, Hattori, McLeland & Naughton	
NUMBER OF CLAIMS:	8	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1115	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L8 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 6
ACCESSION NUMBER: 1991:20617 CAPLUS
DOCUMENT NUMBER: 114:20617
TITLE: Adsorbents for serum amyloid P protein removal from body fluids
INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka
PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02149341	A2	19900607	JP 1988-300247	19881128
JP 06067472	B4	19940831		

L8 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 7
ACCESSION NUMBER: 1990:145618 CAPLUS
DOCUMENT NUMBER: 112:145618

TITLE: Adsorbent and apparatus for immunocomplex removal from body fluids
 INVENTOR(S): Funahashi, Takashi; **Hirai, Fumiyasu**; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01181875	A2	19890719	JP 1988-6168	19880114
JP 06011333	B4	19940216		
JP 10328565	A2	19981215	JP 1998-90413	19880114
PRIORITY APPLN. INFO.:			JP 1988-6168	19880114

L8 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 8
 ACCESSION NUMBER: 1990:204762 CAPLUS
 DOCUMENT NUMBER: 112:204762
 TITLE: Adsorbents for amyloids of blood for treatment of amyloidosis
 INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01135533	A2	19890529	JP 1987-294811	19871120
JP 06020549	B4	19940323		
EP 321703	A1	19890628	EP 1988-119263	19881119
EP 321703	B1	19930428		
R: DE, FR, GB, IT, NL, SE				
EP 476721	A2	19920325	EP 1991-119895	19881119
EP 476721	A3	19920513		
EP 476721	B1	19950301		
R: DE, FR, GB, IT, NL, SE				
US 5216127	A	19930601	US 1991-729234	19910712
US 6037458	A	20000314	US 1992-948470	19920922
PRIORITY APPLN. INFO.:			JP 1987-294810	19871120
			JP 1987-294811	19871120
			JP 1987-330617	19871225
			US 1988-272960	19881118

L8 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 9
 ACCESSION NUMBER: 1990:204761 CAPLUS
 DOCUMENT NUMBER: 112:204761
 TITLE: Adsorbents for blood serum amyloid proteins
 INVENTOR(S): **Hirai, Fumiyasu**; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01135532	A2	19890529	JP 1987-294810	19871120
EP 321703	A1	19890628	EP 1988-119263	19881119
EP 321703	B1	19930428		
R: DE, FR, GB, IT, NL, SE				
EP 476721	A2	19920325	EP 1991-119895	19881119
EP 476721	A3	19920513		
EP 476721	B1	19950301		
R: DE, FR, GB, IT, NL, SE				
US 5216127	A	19930601	US 1991-729234	19910712
US 6037458	A	20000314	US 1992-948470	19920922
PRIORITY APPLN. INFO.:			JP 1987-294810	19871120
			JP 1987-294811	19871120
			JP 1987-330617	19871225
			US 1988-272960	19881118

L8 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1990:135599 CAPLUS
 DOCUMENT NUMBER: 112:135599
 TITLE: Adsorbents for serum amyloid protein, their preparation, and their use
 INVENTOR(S): Hirai, Fumiyasu; Tani, Nobutaka
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 321703	A1	19890628	EP 1988-119263	19881119
EP 321703	B1	19930428		
R: DE, FR, GB, IT, NL, SE				
JP 01135532	A2	19890529	JP 1987-294810	19871120
JP 01135533	A2	19890529	JP 1987-294811	19871120
JP 06020549	B4	19940323		
JP 01171638	A2	19890706	JP 1987-330617	19871225
JP 05018625	B4	19930312		
PRIORITY APPLN. INFO.:			JP 1987-294810	19871120
			JP 1987-294811	19871120
			JP 1987-330617	19871225

L8 ANSWER 29 OF 34 JAPIO COPYRIGHT 2002 JPO
 ACCESSION NUMBER: 1989-171638 JAPIO
 TITLE: ADSORBENT FOR SERUM AMYLOID A PROTEIN
 INVENTOR: HIRAI FUMIYASU; TANI NOBUTAKA
 PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD, JP (CO 000094)
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 01171638	A	19890706	Heisei	(4) B01J020-22

JP
 APPLICATION INFORMATION
 ST19N FORMAT: JP1987-330617 19871225
 ORIGINAL: JP62330617 Heisei
 SOURCE: PATENT ABSTRACTS OF JAPAN, Unexamined Applications,
 Section: C, Sect. No. 642, Vol. 13, No. 447, P. 67
 (19891006)

L8 ANSWER 30 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2001-219062 JAPIO
TITLE: PEPTIDOGLYCAN ADSORBING MATERIAL, AND METHOD AND
DEVICE FOR ADSORBING/REMOVING PEPTIDOGLYCAN
INVENTOR: **HIRAI FUMIYASU**; FURUYOSHI SHIGEO
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001219062A		20010814	Heisei	B01J020-24

JP
APPLICATION INFORMATION
ST19N FORMAT: JP2000-338945 20001107
ORIGINAL: JP2000338945 Heisei
PRIORITY APPLN. INFO.: JP1999 343164 19991202
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 2001

L8 ANSWER 31 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2001-286554 JAPIO
TITLE: ADSORBER FOR DILATED CARDIOMYOPATHY
INVENTOR: OGINO EIJI; FURUYOSHI SHIGEO; **HIRAI FUMIYASU**
; NISHIMOTO TAKEHIRO
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001286554A		20011016	Heisei	A61M001-36

JP
APPLICATION INFORMATION
ST19N FORMAT: JP2000-106915 20000407
ORIGINAL: JP2000106915 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 2001

L8 ANSWER 32 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2001-218840 JAPIO
TITLE: ADSORBENT FOR TRANSFORMING GROWTH FACTOR. BETA,
ADSORBING/REMOVING METHOD, AND ADSORBER
INVENTOR: **HIRAI FUMIYASU**; FUJIMOTO TAMIJI; FURUYOSHI
SHIGEO
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2001218840A		20010814	Heisei	A61M001-36

JP
APPLICATION INFORMATION
ST19N FORMAT: JP2000-035168 20000214
ORIGINAL: JP2000035168 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 2001

L8 ANSWER 33 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2000-288388 JAPIO
TITLE: ADSORBENT FOR TUMOR NECROSIS FACTOR-ALPHA, METHOD FOR
ADSORPTION/REMOVAL, AND ADSORPTION DEVICE
INVENTOR: **HIRAI FUMIYASU**; FURUYOSHI SHIGEO; TANI

PATENT ASSIGNEE(S): NOBUTAKA
PATENT INFORMATION: KANEGAFUCHI CHEM IND CO LTD)

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2000288388A		20001017	Heisei	B01J020-26

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1999-093580 19990331
ORIGINAL: JP11093580 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 2000

L8 ANSWER 34 OF 34 JAPIO COPYRIGHT 2002 JPO
ACCESSION NUMBER: 2000-271214 JAPIO
TITLE: METHOD FOR REDUCING BIOACTIVITY OF ENDOTOXIN
INVENTOR: FUJIMOTO TAMIJI; **HIRAI FUMIYASU**; NAKATANI
MASARU; FURUYOSHI SHIGEO; TANI NOBUTAKA
PATENT ASSIGNEE(S): KANEGAFUCHI CHEM IND CO LTD)
PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2000271214A		20001003	Heisei	A61M001-36

JP

APPLICATION INFORMATION

ST19N FORMAT: JP1999-077711 19990323
ORIGINAL: JP11077711 Heisei
SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
Applications, Vol. 2000

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